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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/826,498	04/04/2001	Loralei Marie Brandt	J6497(C) 3031	
75	90 02/24/2005		EXAMINER	
Karen E Klum	as		YU, GI	NA C
Unilever Intelle 45 River Road	ctual Property Group		ART UNIT	PAPER NUMBER
Edgewater, NJ	07020	-	1617	
			DATE MAILED: 02/24/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
Office Action Summary		09/826,498	BRANDT ET AL.			
		Examiner	Art Unit			
		Gina C. Yu	1617			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
THE - External after - If the - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPL MAILING DATE OF THIS COMMUNICATION. Insions of time may be available under the provisions of 37 CFR 1. SIX (6) MONTHS from the mailing date of this communication. In period for reply specified above is less than thirty (30) days, a replay of the period for reply is specified above, the maximum statutory period for the period for reply within the set or extended period for reply will, by statuting the period by the Office later than three months after the mailing department term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply be tin oly within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from the, cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).			
Status						
1)⊠	Note to Responsive to communication(s) filed on October 6, 2004.					
		s action is non-final.				
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Dispositi	ion of Claims					
5)□ 6)⊠ 7)□	4) Claim(s) 19-25 and 27-30 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 19-25, 27-30 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement.					
Applicati	ion Papers					
10)[The specification is objected to by the Examin The drawing(s) filed on is/are: a) acceptable and applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the E	cepted or b) objected to by the lead rawing(s) be held in abeyance. See ction is required if the drawing(s) is obj	e 37 CFR 1.85(a). sected to. See 37 CFR 1.121(d).			
Priority u	ınder 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachmen		_				
2)	e of References Cited (PTO-892) se of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08 r No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:				

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on October 6, 2004 has been entered.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 19-25 and 27-30 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The terms "less than about" in claims 19 and 27 render the claims vague and indefinite because the metes and bounds of the scope of the limitation are not clear. For example, the scope of the term "about 1.5 %" is flexible and may be determined to be more or less than 1.5 %. The term "less than about" 1.5 % however, is not clear. The court in Amgen, Inc. v. Chugai Phar. Co., held that claims reciting "at least about" were invalid for indefiniteness where there was close prior art and there was nothing in the specification, prosecution history, or the prior art to provide any indication as to what range of specific activity is covered by the term "about." See 927 F.2d 1200, 18

USPQ2d 1016 (Fed. Cir. 1991). In this case, there is nothing in the specification or prior art to indicate what range is covered by the term "about", and the cited reference Peffly (US 5985294) teaches using 1.5 % of holding polymer. The term renders the claims vague and indefinite, and the rejection is proper.

The remaining claims are rejected as depending on indefinite base claims.

Claim Rejections - 35 USC § 103

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claims 19-25 and 27-30 are rejected under 35 U.S.C. 103(a) as being unpatentable over Peffly (US 5985294) in view of Samain et al. (US 6511651 B1) ("Samain") and Maurin et al. (US 6403542 B1) ("Maurin").

Claim 19 requires 0.04-1.5 % of (a) a polymer comprising vinyl caprolactam, methacrylamidopropyl dimethylamine, vinylpyrrolidone monomers; and (b) hydroxyethyl cellulose in alcoholic carrier chosen from methanol, ethanol, N-propanol, isopropanol, or the mixture thereof; wherein the ratio of the polymer and hydroxyethyl cellulose is 1:2.2 to 1:0.2.

Claim 27 requires 0.04-1.5 % of (a) a polymer comprising methacrylamidopropyl dimethylamine, vinylpyrrolidone monomers; and (b) chitosan in alcoholic carrier chosen from methanol, ethanol, N-propanol, isopropanol, or the mixture thereof; wherein the ratio of the (a) and (b) polymers is 1:2.2 to 1:0.2.

Peffly teaches hair styling gel composition comprising 3 % by weight of PVP/VA copolymer (50 % active) and 1 % by weight of hydroxyethyl cellulose, the ratio of the

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holding copolymer to hydroxyethyl cellulose is 1: 0.66, which meets the weight ratio limitation of two hair holding polymer of instant claims, claims 19 (c) and 20-22. See Example III. The reference also teaches that the total amount of hair styling polymer is preferably from about 0.5-10 % by weight, and teaches using ionic and nonionic polymers or the mixtures thereof. See col. 3, lines 33 – 60. Hydroxyethyl cellulose is a preferred nonionic polymers. See col. 4, lines 50-59. As for claims 23-25, examiner views that optimization of the weight ratio of two hair holding polymers is within the skill of the art because the Peffly generally teaches weight amount of the holding polymers to formulate hair styling compositions. The reference teaches that the total amount of the holding polymers is preferably as little as 0.5 %; and Example III shows the weight ratio of vinylpyrrolidone copolymers to hydroxyethyl cellulose at 1:0.66.

As for claim 27, vinylpyrrolidone/methacrylicamidopropyl dimethylamine acrylate copolymer (Styleze CC-10 from ISP) is taught as one of the preferred nonionic polymers. See col. 4, lines 50-59; instant claim 27. Chitosans are taught as a preferred hair styling polymers. See col. 4, lines 16-19. The weight ratio of two hair holding polymers are taught in Example III.

While Peffly teaches vinyl caprolactam/pvp/dimethylaminoethyl methacrylate copolymer, the reference fails to teach a terpolymer having vinyl caprolactam/pvp/methacrylamidopropyl dimethylamine.

Samain teaches that vinyl caprolactam copolymers such as ACP 1189 of ISP, which is a terpolymer of polyvinylpyrrolidones, vinyl caprolactam, and

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dimethylaminopropyldimethylamine are well known hair fixing polymers See col. 3, lines 42 - 60.

Maurin teaches a composition comprising vinyl caprolactam cationic copolymers also comprising vinylpyrrolidone and methacylamidoprpyldimethylamine such as ACP1189 from ISP. See abstract; col. 3, lines 48-51.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to have modified the Peffly composition by substituting the PVP hair holding polymers with the terpolymer of vinyl caprolactum as motivated by Samain and Maurin because 1) Peffly teaches copolymer comprising vinyllactum monomers and/or PVP; 2) Samain and Maurin teach that the vinvl caprolactam/pvp/methacrylamidopropyl dimethylamine is a well known hair styling polymer; and 3) the skilled artisan would have had a reasonable expectation of successfully producing a similar hair styling composition.

Response to Arguments

Applicant's arguments with respect to claims 19-25, 27-30 have been considered but are most in view of the new ground(s) of rejection in part and unpersuasive.

Applicants argues that the reference fails to teach obtaining "effective curl retention" by using a low level of holding polymers in a certain ratio, it is respectfully pointed out that the claimed invention is a composition wherein the motivation of making the prior art composition does not have to be the same as applicants. Furthermore, since the reference teaches using as little as 0.5 % of the total holding polymers, it is expected that using that amount of holding polymer(s) still produces satisfactory hair

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styling properties. Applicants' assertion that the range of hair styling polymer is "extremely broad" is unpersuasive because the reference in fact teaches using 0.5-10 % of the holding polymers.

Conclusion

No claims are allowed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Gina C. Yu whose telephone number is 571-272-0635. The examiner can normally be reached on Monday through Friday, from 8:30 AM until 6:00 PM..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sreeni Padmanabhan can be reached on 571-272-0629. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Patent Examiner

SREENI PADMANABHAN
SUPERVISORY PATENT EXAMINER